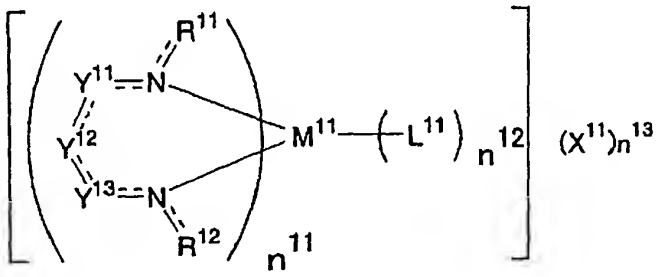
WHAT IS CLAIMED IS:

1. An organic electroluminescent device comprising:

a pair of electrodes; and

at lest one organic layer provided between the pair of electrodes, at least one of the at lest one organic layer being a light emitting layer,

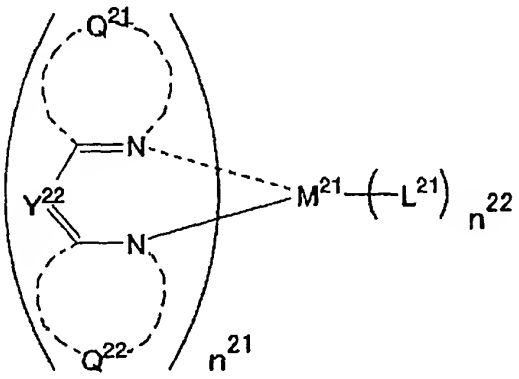
wherein the light-emitting layer comprises a compound represented by the formula (I):



(I)

wherein R^{11} and R^{12} each represent a hydrogen atom or a substituent; Y^{11}, Y^{12}, and Y^{13} each represent a substituted or unsubstituted carbon atom, a substituted or unsubstituted nitrogen atom, an oxygen atom or a sulfur atom; M^{11} represents a transition metal ion; L^{11} represents a ligand; X^{11} represents a counter ion; n^{11} represents an integer of 1 to 3; n^{12} represents an integer of 0 to 4; and n^{13} represents an integer of 0 to 4; with proviso that a compound in which R^{11} and R^{12} are connected together to form a porphyrin ring is excluded.

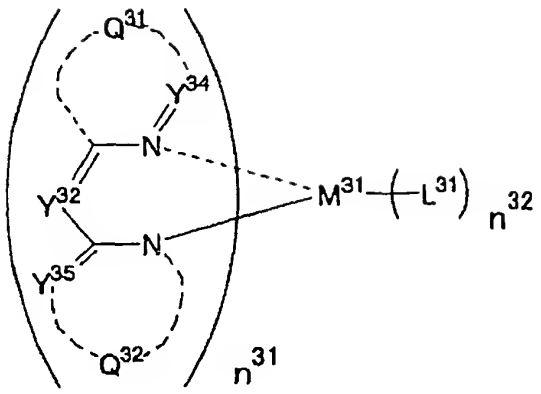
2. The organic electroluminescent device of claim 1, wherein the compound represented by the formula (I) is a compound represented by the formula (II):



(II)

wherein Q^{21} and Q^{22} each represent a group necessary to form a nitrogen-containing heterocyclic ring; Y^{22} represents a nitrogen atom or a substituted or unsubstituted carbon atom; M^{21} represents a transition metal ion; L^{21} represents a ligand; n^{21} represents an integer of 1 to 3; and n^{22} represents an integer of 0 to 4.

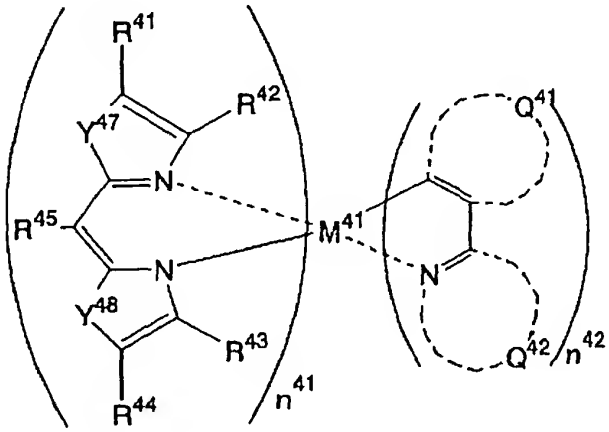
3. The organic electroluminescent device of claim 1, wherein the compound represented by the formula (I) is a compound represented by the formula (III):



(III)

wherein Q^{31} and Q^{32} each represent a group necessary to form a nitrogen-containing heterocyclic ring; Y^{32}, Y^{34}, and Y^{35} each represent a nitrogen atom or a substituted or unsubstituted carbon atom; M^{31} represents a transition metal ion; L^{31} represents a ligand; n^{31} represents an integer of 1 to 3; and n^{32} represents an integer of 0 to 4.

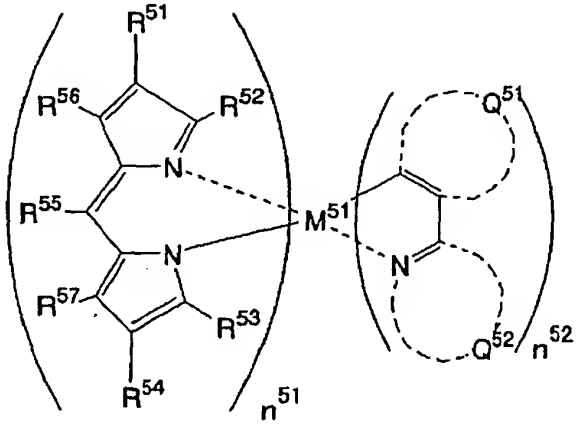
4. The organic electroluminescent device of claim 2, wherein the compound represented by the formula (II) is a compound represented by the formula (IV):



(IV)

wherein R^{41}, R^{42}, R^{43}, R^{44}, and R^{45} each represent a hydrogen atom or a substituent; Y^{47} and Y^{48} each represent an oxygen atom, a sulfur atom, a quaternary carbon atom or a substituted or unsubstituted nitrogen atom; Q^{41} represents a group necessary to form an aromatic ring; Q^{42} represents a group necessary to form a nitrogen-containing heterocyclic ring; n^{41} andn^{42} each represent 1 or 2; and M^{41} represents a transition metal ion.

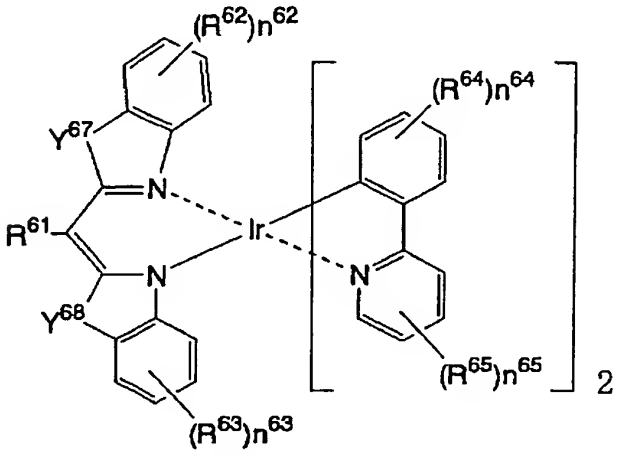
5. The organic electroluminescent device of claim 3, wherein the compound represented by the formula (III) is a compound represented by the formula (V):



(V)

wherein R^{51}, R^{52}, R^{53}, R^{54}, R^{55}, R^{56}, and R^{57} each represent a hydrogen atom or a substituent; Q^{51} represents a group necessary to form an aromatic ring; Q^{52} represents a group necessary to form a nitrogen-containing heterocyclic ring; n^{51} and n^{52} each represent 1 or 2; and M^{51} repres nts a transition metal ion.

6. The organic electroluminescent device of claim 5, wherein the compound represented by the formula (V) is a compound represented by the formula (VI):



(VI)

wherein Y^{67} and Y^{68} each represent an oxygen atom, a sulfur atom, a quaternary carbon atom or a substituted or unsubstituted nitrogen atom; R^{61}, R^{62}, R^{63}, R^{64}, and R^{65} each represent a substituent; and n^{62}, n^{63}, n^{64}, and n^{65} each represent an integer of 0 to 4.

7. The organic electroluminescent device of claim 6, wherein n^{62}, n^{63}, n^{64}, and n^{65} each represent an integer of 0 to 2.

8. The organic electroluminescent device of claim 6, wherein n^{62}, n^{63}, n^{64}, and n^{65} each represent an integer of 0 or

1.

9. The organic electroluminescent device of claim 6, wherein n^{62}, n^{63}, n^{64}, and n^{65} each represent 0.

10. The organic electroluminescent device of claim 1, wherein M^{11} represents an iridium ion, a platinum ion, a rhenium ion or a ruthenium ion.

11. The organic electroluminescent device of claim 4, wherein M^{11} represents an iridium ion, a platinum ion, a rhenium ion or a ruthenium ion.

12. The organic electroluminescent device of claim 5, wherein M^{11} represents an iridium ion, a platinum ion, a rhenium ion or a ruthenium ion.

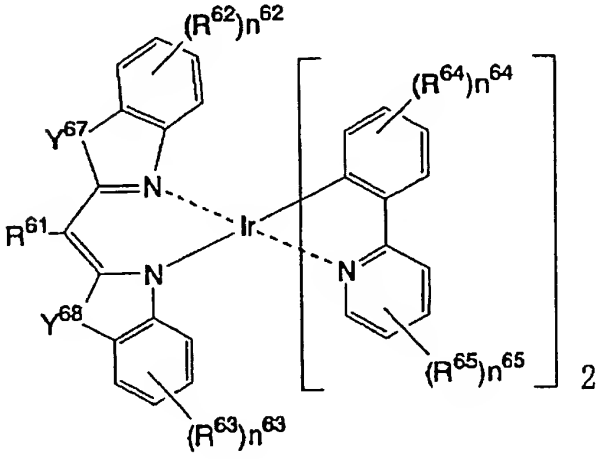
13. The organic electroluminescent device of claim 1, wherein n^{11} represents 1 or 2.

14. The organic electroluminescent device of claim 1, wherein n^{12} represents an integer of 0 to 2.

15. The organic electroluminescent device of claim 1, wherein n^{13} represents 0 or 1.

16. The organic electroluminescent device of claim 1, wherein n^{13} represents 0.

17. A compound represented by the formula (VI):



(VI)

wherein Y^{67} and Y^{68} each represent an oxygen atom, a sulfur atom, a quaternary carbon atom or a substituted or unsubstituted nitrogen atom; R^{61}, R^{62}, R^{63}, R^{64}, and R^{65} each represent a substituent; and n^{62}, n^{63}, n^{64}, and n^{65} each represent an integer of 0 to 4.

18. The compound of claim 17, wherein n^{62}, n^{63}, n^{64}, and n^{65} each represent an integer of 0 to 2.

19. The compound of claim 17, wherein n^{62}, n^{63}, n^{64}, and n^{65} each represent an integer of 0 or 1.

20. The compound of claim 17, wherein n^{62}, n^{63}, n^{64}, and n^{65} each represent 0.